



248 JEAN AVENUE, LYTTELTON,
CENTURION, SOUTH AFRICA
P.O. BOX 14167, LYTTELTON,
CENTURION, 0140, SOUTH AFRICA
E-MAIL: admin@deltamune.co.za

TEST REPORT

Attention: Mokgatle Masela
NALEDIPHARM
1288 MALATJI STREET
ROCKVILLE
JOHANNESBURG
1818

Lab number 552102
Order reference 010319
Sample Date 01/03/2019
Submit Date 01/03/2019
Report Date 20/05/2019

VC8054: Bactericidal activity of chemical disinfectants and antiseptics.

Product information:	
Product name:	1ST STEP DISINFECTANT
Batch number:	NOT SUPPLIED
Expiry Date:	NOT SUPPLIED
Date received:	01-Mar-19
Storage conditions:	AMBIENT TEMPERATURE
Recommended Diluent:	NONE
Active substances:	QAC BLEND
Appearance:	SUITABLE FOR TESTING

Test conditions:	
Date of test:	10/04/2019
Diluent used:	NONE
Test Concentration:	NEAT
Appearance of dilution:	HOMOGENOUS SUSPENSION
Contact Time:	5 MINUTES
Test Temperature:	22°C
Interfering substance:	NONE
Solution appearance during test:	HOMOGENOUS SUSPENSION
Rinsing Liquid:	STERILE DISTILLED WATER
Bacterial strains used:	Escherichia coli ATCC10536 Staphylococcus aureus ATCC6538 Pseudomonas aeruginosa ATCC15442
Analyst	AVIWE METUSI

Test Organism:	<i>Escherichia coli</i>
Initial bacterial load (cfu/ml):	1.07 X 10 ⁴
Contact Time:	5 Minutes
Final Bacterial Load (cfu/ml)	<10
% Kill rate	>99.9%
Log reduction	3.72
Compliance with requirement	Pass

Test Organism:	<i>Pseudomonas aeruginosa</i>
Initial bacterial load (cfu/ml):	2.04 X 10 ⁴
Contact Time:	5 Minutes
Final Bacterial Load (cfu/ml)	<10
% Kill rate	>99.9%
Log reduction	4.01
Compliance with requirement	Pass

Test Organism:	<i>Staphylococcus aureus</i>
Initial bacterial load (cfu/ml):	1.20 X 10 ⁴
Contact Time:	5 Minutes
Final Bacterial Load (cfu/ml)	<10
% Kill rate	>99.9%
Log reduction	3.77
Compliance with requirement	Pass

CONCLUSION

1ST STEP DISINFECTANT WAS TESTED ACCORDING TO SECTION 5.10 OF VC8054:1999.

The product was able to achieve a >99.9% killing efficacy against viable *E.coli*, *P.aeruginosa* and *S.aureus* in a 5 minute contact period when applied at a neat concentration.



Laboratory Services Manager - Hygiene Services